

What is Claimed Is:

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5 1. A button cover holding mechanism of a portable telephone which has a button cover with a plurality of circular holes therein, and has a body having a reception guide rail and a projection bar, comprising:

a cylindrical bush, a cylindrical ring and a spring inserted into the circular holes of the button cover, covered with a cover mounting projection, and sealed by an ultrasonic connection technique;

10 wherein the cylindrical ring is inserted into the reception guide rail of the body by positioning said cylindrical bush toward a projection bar of said body, said cylindrical bush and said cylindrical ring are outwardly positioned by a restoring force of said spring, and a trough portion of said cylindrical bush is assembled to contact said projection bar;

15 wherein said cylindrical bush includes wave projections, and said projection bar of said body is in contact with the wave projections to directly apply said restoring force of said spring to the cylindrical bush; and

wherein said restoring force is generated by a change in a moving distance of said spring according to a phase of said cylindrical bush which causes a moment for rotating said button cover, for facilitating opening and closing said button cover.

2. The button cover holding mechanism as in claimed in Claim 1, wherein an inclined middle portion of said cylindrical bush is in contact with said projection bar of said body when said button cover is in the closed position, and said trough portion of said cylindrical bush is in contact with said projection bar when said button cover is in the open position at a predetermined angle.

5 SUB 2 3. A portable telephone comprising:
telephone circuitry including a plurality of buttons for use thereof;
10 a button cover with a plurality of circular holes therein, with the button cover for covering the plurality of buttons; and
a body having a reception guide rail and a projection bar; and
a button cover holding mechanism including:
15 a cover mounting projection;
a bush including projections in contact with the projection bar;
a ring positioned in the reception guide rail; and
a resilient member for applying a restoring force to the bush;
20 wherein each of the bush, the ring, and the resilient member is positioned in the circular holes of the button cover and covered with the cover mounting projection.

4. The portable telephone of claim 3 wherein the resilient member is a spring which generates the restoring force by a change in a moving distance of the spring for rotating the button cover for facilitating opening and closing the button cover.

5 5. The portable telephone of claim 3 wherein the projections of the bush include wave projections.

E 6. The portable telephone of claim 3 wherein the bush and the ring are outwardly positioned by the restoring force of the resilient member, and ^{said} a trough portion of the bush contacts the projection bar.

10 7. The portable telephone of claim 3 wherein the bush, the ring, and the resilient member are sealed in the cover mounting projection by an ultrasonic connection technique.

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8. A button cover holding mechanism of a portable telephone which has a button cover with a plurality of circular holes therein, and which has a body having a reception guide rail and a projection bar, the button cover holding mechanism formed by a process comprising the steps of:

- 5 inserting a cylindrical bush into the circular holes;
 inserting a cylindrical ring into the circular holes;
 inserting a spring into the circular holes;
 covering the cylindrical bush, the cylindrical ring, and the spring
 with a cover mounting projection; and
10 sealing the cylindrical bush, the cylindrical ring, and the spring
 in the cover mounting projection.

9. The button cover holding mechanism formed by the process of claim 8 wherein the step of sealing includes the step of:

- sealing the cylindrical bush, the cylindrical ring, and the spring
15 in the cover mounting projection by an ultrasonic connection technique.

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10. The button cover holding mechanism formed by the process of claim 8 wherein the step of inserting the cylindrical bush includes the steps of:

- positioning the cylindrical bush toward a projection bar of the
 body; and
20 inserting the cylindrical bush into the reception guide rail of the
 body.

11. The button cover holding mechanism formed by the process of claim 8 further including the step of:

outwardly positioning the cylindrical bush and the cylindrical ring by a restoring force of the spring.

5 12. The button cover holding mechanism formed by the process of claim 8 further including the steps of:

positioning a trough portion of the cylindrical bush to contact the projection bar; and

10 positioning the projection bar of the body to be in contact with wave projections of the cylindrical bush to directly apply a restoring force of the spring to the cylindrical bush.

13. The button cover holding mechanism formed by the process of claim 12 further including the steps of:

15 providing a change in a moving distance of the spring;

causing a moment for rotating the button cover; and

generating the restoring force for facilitating opening and closing the button cover.